

Aerospace Education Services Program Staff Development Request

Date(s) of Program: _____ Number of Participants: _____

Requestor Information *(Please print or type clearly)*

Last Name _____ First Name _____ MI _____

School Name _____

Address _____

City _____ County _____ State _____ Zip Code _____

Phone _____ FAX _____ E-Mail _____

REQUESTOR Position: ☐ Teacher ☐ Administrator ☐ Other _____

Participant School Information:

Type of School/Institution *(Check all that apply)*

- | | | | |
|----------------------------------|--------------------------------------|---|---|
| <input type="checkbox"/> Public | <input type="checkbox"/> Suburban | <input type="checkbox"/> Title One | <input type="checkbox"/> Special Education |
| <input type="checkbox"/> Private | <input type="checkbox"/> Rural | <input type="checkbox"/> Informal Education | <input type="checkbox"/> Historically Black Inst. |
| <input type="checkbox"/> Magnet | <input type="checkbox"/> Military | <input type="checkbox"/> Native American Inst. | <input type="checkbox"/> Inst. Serving Primarily Women |
| <input type="checkbox"/> Charter | <input type="checkbox"/> Home School | <input type="checkbox"/> Hispanic Serving Inst. | <input type="checkbox"/> Other Minority Institution |
| <input type="checkbox"/> Urban | | | <input type="checkbox"/> Inst. Designated as Primarily Serving Persons w/Disabilities |

Grades Participants Currently Teach *(Check all that apply)*

☐ K ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ Pre-service

Primary Area of Instruction of Workshop Participants *(Check all that apply):*

- | | | | |
|---------------------------------------|---|--|---|
| <input type="checkbox"/> All Subjects | <input type="checkbox"/> Computer Science | <input type="checkbox"/> Life Sciences | <input type="checkbox"/> Special Education |
| <input type="checkbox"/> Astronomy | <input type="checkbox"/> Earth Sciences | <input type="checkbox"/> Mathematics | <input type="checkbox"/> Technology Education |
| <input type="checkbox"/> Biology | <input type="checkbox"/> Engineering | <input type="checkbox"/> Physical Sciences | <input type="checkbox"/> Vocational/Technical |
| <input type="checkbox"/> Business | <input type="checkbox"/> Environmental Sciences | <input type="checkbox"/> Physics | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Chemistry | <input type="checkbox"/> General Sciences | <input type="checkbox"/> Social Studies | |

Has your staff participated in other NASA Education Programs? ☐ Yes ☐ No

- | | | | | | |
|---|--|--|---|--|--------------------------------|
| <input type="checkbox"/> Educator
Astronaut
Program
(EA) | <input type="checkbox"/> Aerospace
Education
Services
Program
(AESP) | <input type="checkbox"/> Digital
Learning
Network
(DLN) | <input type="checkbox"/> NASA
Educator
Schools
(NES) | <input type="checkbox"/> On-
Center
Workshop
(TEAL) | <input type="checkbox"/> Other |
|---|--|--|---|--|--------------------------------|

Workshop Site: *(Check all that are available)*

- | | | | | |
|---------------------------------------|-----------------------------------|---------------------------------------|--|--|
| <input type="checkbox"/> Computer Lab | <input type="checkbox"/> Water | <input type="checkbox"/> Large Screen | <input type="checkbox"/> Tables/Chairs | <input type="checkbox"/> Elevator/Ramp |
| <input type="checkbox"/> TV/VCR | <input type="checkbox"/> Internet | <input type="checkbox"/> Electricity | | |

Location of workshop site if different from school address:

Location _____

City _____ County _____ State _____ Zip Code _____

Seating Capacity _____ Number of workshop participants _____

Program Content:

Grade Levels of Teachers: ☐ K-4 ☐ 5-8 ☐ 9-12 ☐ Other/Explain _____

NASA mission areas to be addressed: *(Two areas can be addressed in a four hour workshop) (see appendix A)*

☐ Aeronautics
Research

☐ Exploration Systems

☐ Science

☐ Space Operations

State Framework/National Standard to be addressed: *(Indicate one or two)*

☐ Math

☐ Science

☐ Technology

☐ Geography

List one or two specific standards:

Describe your purpose/objectives/goals of this program:

Describe how you plan to incorporate workshop material and NASA resources into your school curriculum and how this request correlates with your NES Strategic and Implementation plans:

Please provide agenda with beginning and ending times (PLEASE NOTE: 1hr required for set-up and 1hr required for tear-down.)

COMMENTS:

Please return completed form to:

**NASA Glenn Research Center
AESP 7-4
21000 Brookpark Road
Cleveland, OH 55135
(216) 433-5572
(216) 433-5924 (FAX)**

NASA MISSION DIRECTORATES

AESP Workshop Concentrations

NOTE: Workshop activities will be delivered at the requested grade level.

1. AERONAUTICS RESEARCH

Research and develop aeronautical technologies for safe, reliable and efficient aviation systems.

Workshop Concentrations:

- *History of Flight* (5-12) - How has the invention of flight changes our world?'
- *Principles of Flight* (K-12) - How does an airplane fly?
- *Principles of Rocketry* (K-12) - How does the flight of a rocket differ from the flight of an airplane?

2. EXPLORATION SYSTEMS

Develop capabilities and supporting research and technology that enable sustained and affordable human and robotic exploration; includes the biological and physical research necessary to ensure the health and safety of crew during long duration space flight.

Workshop Concentrations:

- *Microgravity* (5-12) - What are the biological and physical effects of space flight?
- *Living and Working in Space* (k-12) - What are the challenges to be overcome before humans can live and work in space?

3. SCIENCE

Carry out the scientific exploration of the Earth, Moon, Mars and beyond; chart the best route for discovery; and reap the benefits of Earth and space exploration for society.

Workshop Concentrations: (NOTE: A discussion of the benefits of Earth and Space exploration for society are included in each concentration.)

- *The Solar System* (K-12) - What information do we have about the planets and other objects in our Solar System?
- *Beyond the Solar System* (9-12) - What discoveries have been made beyond our solar system?
- *Lunar and Meteorite Sample Loan Program* (K-12) - Become certified to borrow moon rocks from NASA for your school.
- *Remote Sensing* (K-12) - How are Earth images used to monitor our planet?
- *Earth as a System* (K-12) - From land to sea to air - how does our planet operate as a system?

4. SPACE OPERATIONS

Direct space operations, space launches and space communications, as well as the operation of integrated systems in low Earth orbit and beyond.

Workshop Concentrations:

- *Rockets* (K-12) - How are rockets able to send humans and spacecraft into space?
- *Solar System Exploration* (K-12) - What NASA missions have explored the planets and other objects in our Solar System and what did they find?
- *The International Space Station* (K-12) - What is the current status of the assembly of and research on the International Space Station?

Contact your Aerospace Education Services Program Specialist for specific curriculum connections for the above concentrations:

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